

Continuation of No 14.

Let sail from Havre (395). observe the latitude of Cape Borneus light-house (395). make the Isle of Wight, observe the latitude of the Start Point, make it 3 miles different from the Tables. (395). get soundings on George's bank (401). Observe the latitude of. Thatchers Island lights $42^{\circ} 38' N$. which agrees with the Latitude Journal No. page . arrive at Salem (405).

Observation of the latitude of Henega $20^{\circ} 55' N$. very erroneously laid down in ~~books~~ charts, remarks on the passage. between Henega and Achling's Key (403). Observation on the latitude of Castle Islands (or South Key) $22^{\circ} 9' N$. which is 11' different from that in the Edition of the Navigator (403). Observe the latitude of Bird Island or North Key of Crooked Island $22.51 N$. error in the Navigator $23'$. (404) Latitude of the anchorage at Crooked Island (404). Remarks on the anchorage at New Point Comfort, & its latitude observed $37^{\circ} 19' N$. (405). Observed latitude of Windmill Point $37^{\circ} 37' N$. Latitude of Smith's Point (406). Remarks on entering Jacquemel, appearance of the land near it &c. (407).

Recommend the chart of the river Tagus published by Mount & Page in 1749, prefers it to some late charts, (Latitude of Lisbon $38^{\circ} 42' N$. (408). Latitude of Ile Dieu (408) $46^{\circ} 42'$. remarks on that Island & the shoals near it, Remarks on the Isle Re which lies S.E. from Ile Dieu. Soundings erroneously marked on the late charts (408) Remarks on the entrance of Havre de Grace, appearance of the land &c. (409). Various interesting notes in several parts of this journal.

N^o 18.

Joseph Phrippen's journal in the Ship Hazard, Richard Gardner master, from Salem to Europe and India & back to Salem,

Set sail from Salem (412) get soundings on the coast of France & (413 N^o 1) Make the Ecket lights, & Cape La Havre (414) Proceed from thence to Antwerp (415) Set sail from Antwerp, proceed down the channel take a departure from the Eddystone light (416) Make I. Fortaventura, Canaria (418). St. Laz, Mayo, St. Jago, come to anchor in Praya Bay (420). Set sail from Port Praya (420) Make Tristan de Cunha (424). Make Cape Lazullas, & arrive at the Cape of Good Hope (428). - Set out from the Cape of Good Hope (430) make the land in the coast of Orissas (440) arrive at Calcutta (440). Many magnetical observations taken in this passage.

Take a departure from Point Palmyras (442) meet a south westerly current off the Cape of Good Hope (450) North westerly (452) various magnetical observations.

N^o 19.

Thomas B. Osgood's journal in the Ship Bonetta, Benj^r Raphael master, from Salem to Nocha & back,

Set sail from Salem (464). make Trinidad (470). Estimate Trinidad to lie in 3^o W. long. [Perron made it in 28.32' W. having the best circles & chronometers to make his observations with,] While result is confirmed by the observation in Journal N^o 3 Page 233 vol. 1.] Make the Cape of Good Hope (474) Madagascar (476) remarks on the currents in this track. Make Mozambique & come to anchor there (478)

Note 10.

The Land to the N.E. Havre de Grace is of a good height and high white. Steep Banks - Hold also - You may run the Shore down and shall in close to the lights which stand on the Bank at the North Entrance of the River - just so as you can see the heights above the Bow of the Ship. After you have pass'd them - bring them to bear about North - and anchor in $4\frac{1}{2}$ fathoms water. If its low water (but 7 or 8 fathoms of high water) you are then in a good Road Stead with North-Easterly winds - and good ground. You cannot go any higher without a Pilot. -

you must not give the lights too great a berth, lest you get on a Shoal which lay off from them.

When you get the lights in one you are to the Eastward of the Shoal. -

You ought to have a good hauser - for no vessel can go into the Basin without. -

(No. 18)

Journal

From *Salem* to *Europe & India*
 in the *Ship Hazard Rich^d Gardner* Master :
 kept by *Joseph Phippen* for the use of the
EAST INDIA MARINE SOCIETY.

AT a Meeting of the **EAST INDIA MARINE SOCIETY**, at their Hall, on Wednesday evening, November 4, 1801, it was unanimously voted, That, in order to promote one great object of their institution, which was the acquiring of nautical knowledge, a Committee should be chosen to procure *BLANK JOURNALS* for the use of the Society; and that each Member bound to sea should be furnished with one of them, to be returned at the end of his voyage, with a regular diary of the winds, weather, and remarkable occurrences, during his voyage, arranged in such manner as the Committee should direct.

Conformable to the above vote, a Committee was chosen; who, having procured *JOURNALS* of the present form, request the Members to fill up the blanks according to the following

DIRECTIONS.

THE blank at the top is to be filled up with the names of the Master, and of the person keeping the Journal, the name of the ship, and the places nearest to the ship on the days given in that page. As for example: after passing the Cape de Verds, say, from the Cape de Verds towards the Cape of Good Hope.

In the 1st column of the Journal must be marked the day of the month; in the 2d, the course made good on that day; in the 3d, the distance sailed; in the 4th, the latitude at noon by account; in the 5th, the latitude by observation; in the 6th, the longitude by account; in the 7th, the longitude by observation reduced to noon by means of the log, or a time-keeper.

When the variation is observed, it is to be marked in the 10th column, the latitude and longitude in at the time of taking the observation being calculated from the observed latitude and longitude at noon by means of the log, and marked in the 8th and 9th columns. When the variation is observed both in the evening and morning of the same sea-day, the evening observation must be marked first; and it may be also noted whether the observation was by an azimuth or amplitude, by marking the former *az.* and the latter *am.*

The winds are to be marked in the 11th column, two or three times each day, placing them regularly beneath each other.

In the right hand column must be noted, the general state of the weather, winds, currents, bearings of capes, islands, &c. with their estimated distances, and any other remarks that may be useful to navigators.

When an opportunity offers to take any observations for determining the latitude or longitude of any remarkable place or point of land, it should be carefully attended to; and, for the satisfaction of those who may examine the Journals, it will be proper to give a detail of the observations. Thus, if the observation was taken for determining the latitude by the meridian altitude of the Sun, it would be proper to note the altitude of the Sun's lower limb, taken from the quadrant, his declination, and the bearing and distance of the place at the time of observation. Should the place not be in sight at the time of taking the meridian observation, it would be proper to note the course and distance made good by the ship, between the times of taking the meridian observation and observing the bearing of the land. A particular attention to observations of this kind will probably be the means of procuring a valuable collection of useful information. If the latitude or longitude observed should differ from any late books or charts, it would be proper to note it. In case any general remarks on the wind, weather, &c. experienced in the passages, should occur to the Journalist, he is requested to arrange them in the pages allotted for that purpose at the end of the Journal. A blank page is also assigned for an account of the coin, weights and measures of the several places touched at in the voyage; and it is hoped that care will be taken in acquiring information on these subjects. Any remarks on the commerce of the different places touched at in the voyage, with the imports, exports, and manner of transacting business, will be of public utility. Whatever is singular in the manners, customs, dress, ornaments, &c. of any people, is deserving of notice.

There should be collected, for the Museum, specimens of various kinds of vegetable substances, earths, minerals, ores, metals, volcanic substances, &c. There should also be preserved such parts of birds, insects, fish, &c. as serve most easily to distinguish them, and if no part can be preserved, a description of any that are remarkable may be given. Inquiry should be made for any remarkable books in use, among any of the eastern nations, with their subjects, dates and titles. Articles of the dress and ornaments of any nation, with the images and objects of religious devotion, should be procured.

Journal, in the Ship Hazard Rich?

Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Aug th 12	East	125	N 42.40	N 42.42	W 67.45	~~~~~	~~~~~	~~~~~	~~~~~
13	E 10° S	56	42.30	42.31	68.31	~~~~~	~~~~~	~~~~~	~~~~~
14	E 13° N	34	42.38	42.37	65.50	~~~~~	~~~~~	~~~~~	~~~~~
15	S 55° E	73	41.36	41.52	54.30	~~~~~	~~~~~	~~~~~	~~~~~
16	E 20° S	23	41.48	41.44	64.~	~~~~~	N 41.33	W 64.12	az. 8.17
17	E 5° N	160	42.2	42.2	50.22	~~~~~	42.1	63.8	am. 9.11
18	E 5° N	222	42.19	42.18	55.17	~~~~~	~~~~~	~~~~~	~~~~~
19	E 9° N	226	42.49	~~~~~	50.14	~~~~~	~~~~~	~~~~~	~~~~~
20	E 8° S	149	42.28	42.27	46.52	~~~~~	~~~~~	~~~~~	~~~~~
21	S 54° E	60	42.3	42.10	45.54	~~~~~	~~~~~	~~~~~	~~~~~
22	E 7° N	122	42.18	~~~~~	43	~~~~~	~~~~~	~~~~~	~~~~~

Gardner Master, from Salem ————— towards Havre De Grace

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

SE	1 st part Gentle Gale & pleasant Weather, 10 th Clock this morning, it being the 11 th day by civil acct. W th anchor & came to Sea. in C: with the Belisarius. Capt. Henry
SE	3 P.M. the Belisarius carried away her F. F. M. & bore away for Salem 4 P.M. Pidgeon Hill bore
SE & S	NW 1/2 W Dist Cheaguis. 2 part fresh Breezes & foggy. 3 part Ditto. Ends fine Breezes
SE	1 st part. very foggy. with Rain 2 nd part Ditto. — 3 rd part. blowing fresh
SE	with small showers of Rain. Ends Cloudy Weather. with fine Rain
SE & S	
SE	
SE 1/2 S	1 st part fresh Breezes, very thick & Rainy Weather. 2 nd part Ditto. —
South	7 P.M. sounded in 65 fath. Gravel & caught a fine Cod fish. 3 rd part more
SW	moderate, but very foggy. Ends more Clear
WSW	
SW	1 st part Light Breezes & foggy. 2 nd part very foggy. 3 rd part more Clear
West	Ends. with Light airs & Remarkable pleasant
WSW	
SSW	
South	1 st part, Light airs & pleasant, 2 nd part D ^o and Cloudy. with many
NE	tide rips. 3 rd part Light Breezes & pleasant, 7 a.m. heavy tide Rips. &
East	being almost Calm, try'd the Current, it setting NE & E 1 st part Hour, but judge it to
SE	have set in contrary direction from the 1 st to the 3 rd parts, Ends pleasant
SE & S	1 st Part, moderate Gale & pleasant, with a smooth Sea, 2 nd part D ^o ... D ^o
SE	3 rd part. D ^o ... D ^o ... Ends fine Breezes & Remarkable Pleasant
Ditto	
South	
South	1 st Part Gentle Gale & something Cloudy. 2 nd part - Fine Breezes & Clear
SW	Ends Ditto - Ditto - - -
SW & S	
Ditto	
S. W	1 st part Brisk Gale & pleasant Weather 2 nd part D ^o ... D ^o
"	3 rd part more moderate & hazy - Ends moderate, thick & Cloudy W th
SW & W	
West	1 st part moderate Breezes & very foggy. 2. P.M. no soundings with 120
NE	fath. line, - 2 nd part very foggy, with small Rain, 3 rd part small Breezes
"	& foggy, with fine Rain. Ends D ^o ... D ^o ...
ENE	
ENE	1 st part, Moderate & Cloudy, & caught a Porpoise & lost him. in getting
East	him on Board (as paddys says) 2 nd part light airs & hazy - 3 rd part Ditto
Calm & S	Ends, Calm. pleasant, with a small Breeze & times
ENE	
S. W	1 st part Light airs & pleasant Weather 2 nd part moderate Breezes & Cloudy
S. S. W	3 rd part D ^o ... D ^o ... 5 & 6 am, saw 6 sail, a head, & on our W th Bow & on our Lee Bow
"	Hand & Eastw th . 11 a.m. 3 of the ships, large ships, entirely out of sight, astern, & shaped
"	all the Rest, 1 Frigate appears to sail very fast, but can do nothing with us.

Journal, in the Ship Hazard R.^d Far

Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Aug.			N ^o	N ^o	W	W			
23	E 19 ^o N	211	43.27	43.32	38.24	38.23	~~~~~	~~~~~	~~~~~
24 th	E 15 ^o N	144	44.4	44.6	35.4	~~~~~	~~~~~	~~~~~	~~~~~
25 th	E 25 ^o N	231	45.41	45.40	30.6	~~~~~	~~~~~	~~~~~	~~~~~
26 th	E 18 ^o N	250	46.58	46.58	24.24	~~~~~	~~~~~	~~~~~	~~~~~
27 th	E 14 ^o N	250	47.58	47.58	18.24	~~~~~	~~~~~	~~~~~	~~~~~
28 th	E 11 ^o N	220	48.40	48.40	12.58	~~~~~	N 48.8	W 16.47	am 26.30
29 th	E 10 ^o N	148	49.21	~~~~~	9.28	~~~~~	~~~~~	~~~~~	~~~~~
30 th	E 2 ^o N	45	49.22	~~~~~	8.28	~~~~~	~~~~~	~~~~~	~~~~~
31 st	E 10 ^o S	34	48.48	48.46	8.19	~~~~~	~~~~~	~~~~~	~~~~~
Sept.									
1 st	E 22 ^o N	82	49.16	~~~~~	8.22	~~~~~	~~~~~	~~~~~	~~~~~
2	E 13 ^o N	125	49.44	49.45	3.18	~~~~~	~~~~~	~~~~~	~~~~~

dnes Master, from

Salem

towards

Havre, De, Grace

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

S.W.S.	1 st part fresh Breezes and flying Clouds
Ditto	2 ^d " Gentle Breezes & smooth Sea, 3 ^d part Ditto. Weather.
W.S.W.	9 th a.m. spoke Capt. Tey in a Brig from Petersburg out 50 days bound to
W.S.	Marolhead gave him a Bbl of Bread & Water, & ends, pleasant
W.S.	1 st part Moderate Gales & pleasant Weather 2 ^d part Hazy, 3 ^d part
S.W.	more Clear. Ends, steady Breezes & pleasant, my Long. by acc. agrees
"	so near with a Lunar Obs. taken yesterday of the O.C. that I still continue
"	the same, we determin'd the long. by 3 sets of Obs. & believe it to be as exact as may be
S.S.W.	1 st part fine Breezes & pleasant Weather. 2 ^d part Cloudy, with fine
S.W.	Rain 3 ^d part Cloudy & hazy. Ends, gentle & steady Gales. Cloudy
"	& hazy weather saw a great number of birds
S.W.	1 st part fresh Breezes and Cloudy, 2 ^d part Ditto & hazy
"	3 ^d part D ^r & more Clear. Ends, Ditto & more hazy
S.W.	1 st part Fresh Breezes and Cloudy, 2 ^d & third parts, Ditto
"	Ends, Fine fresh Breezes and very pleasant Weather
S.W.	1 st part Fine Breezes and pleasant Weather. 2 ^d part more moderate
S.S.W.	3 ^d & latter parts Moderate Breezes & pleasant Weather — wind =
S.E.	Variable
S.E.	This 24 Hours begins, & ends, with moderate Breezes, Cloudy & hazy
South	Weather. saw a number of birds of diff. kinds, the weather appears like
S.E.	drawing on foundings. air much colder than has been,
S.E.	1 st part Moderate Breezes, thick & Cloudy Weather. saw num.
E.S.E.	bers of Hag dens, 2 ^d part & Midnight found d ^r 90 fath ^s . fine grey sand
"	with small black shells Ends, gentle Breezes & Cloudy, see numbers of birds
E.S.E.	1 st part Light airs & very foggy saw several flocks of birds, & 1 Gannet
S.E.	4 P.M. found d ^r , 95 fath ^s Grey sand, with very small P. ^s of shells. 2 ^d part
Calm	light airs inclining to Calm 3 ^d & latter parts Calm with light airs & times
West	1 st part light airs & Cloudy, 1 P.M. spoke the ship Sally, Capt. Webber
S.S.E.	from Liverpool bound to Charleston out 7 days 2 ^d part D ^r Weather
S.E.	3 ^d & latter parts Moderate, Cloudy, & Hazy. spoke a Brig. from Marjillis bound
South	for Havre De Grace
From S.E.	1 st part Moderate Breezes & Cloudy 2 ^d part D ^r weather & spoke a ship
"	from Havre bound to N. York 3 ^d part foggy - 7 a.m. found d ^r 56 fath ^s with
S.W.	Rotten stone & small P. ^s of broken shells of diff. kinds & Colour

Princess Master, from *Salem* — towards *Harve De Grace* —

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
S.W. N.W. light & variable	1 st part moderate & cloudy - 2 P.M. saw Land bear $\frac{1}{2}$ N.E. & E 2 ^d part - " - " - 8.30 p.m. saw the Casket lights bearing S.E. 3 ^d - " - " - " - 1 a.m. the lights bore S.S.W. End; moderate & pleasant - 9 a.m. saw Cape Bayleur Bear $\frac{1}{2}$ S.W.
Westerly Variable -	1 st part light breezes & pleasant 1 P.M. saw Cape La Have. B3. S.E. & S. - 7 P.M. saw the lights & got a Pilot - 9.30. anchored in 9 fath. in Harve De Grace Roads -
N.W. S.W. ly - - -	9 a.m. left Harve Roads, Bound to Rotterdam 10 a.m. Cape de Have Bore S.W. 6 Leagues Ends Squally with Rain -
	Moderate & pleasant - 7 P.M. saw Dungeness Light - bear $\frac{1}{2}$ N.E. & N. - 9 saw S th Foreland Light - Middle part lay off on Dover - 5 a.m. made sail - 6 S th Foreland lights bore N.W. 4 Leagues
	4 P.M. with light squally, saw the Island of Goree bear $\frac{1}{2}$ E. & S. - 6 p.m. got a pilot - 8 P.M. anchored in Helvoetsluis 6 fath.
	4 P.M. P. Civil Acc ^t got under weigh & made sail for Antwerp, but was detained by a Frigate that lay there, because Capt. Gaezner did not go on B ^d & show his papers
	Civil Acc ^t - 4 a.m. got under weigh & made sail - 2 P.M. saw the Buoys in the Durloo Channel - 5 got a Pilot - 8 came to Anchor in Flushing Roads. Wind S.E. & pleasant
	2 P.M. anchored abreast the City of Antwerp Moderate, Clear, & pleasant Weather
S.S. East- ly -	8 a.m. got under Weigh, Bound to India, 3 P.M. came to Anchor in Flushing, fresh Breezes from S.S. & E.
E. N	Sea Acc ^t - 8 a.m. got under weigh for India, moderate & cloudy - 11 a.m. the Island Bore S.E. & S. 4 Leagues (the Island of Walcheren) -
	Moderate Breezes & cloudy - 2 a.m. hove too - 6 a.m. made all sail - 6.30 a.m. saw the N th Foreland Light B3. N.W. 7.30. saw the Goodwin floating lights & the N th Lights bore W. & S. Dist 3 Leagues -

Journal, in the Ship Hazard. R^d

Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Nov ^r 30 th	—	—	North	North	West	2 ^o	—	—	—
Dec ^r 1 st	S 36 N	99'	48.48	48.49	5.35	—	—	—	—
2 ^o	S 83 N	114'	48.35	—	8.6	—	—	—	—
3 ^o	W. by N	42'	48.48	48.50	8.59	—	—	—	—
4 th	S 81 N	83'	48.37	48.34	10.50	—	—	—	—
5 th	S 31 N	157'	46.19	46.19	12.39	—	—	—	—
6 th	S 31 N	122'	44.35	44.32	14.10	—	Opt ^h 4 th	West 13 ^h 46'	am 25 ^h 46'
7 th	S 32 N	80'	43.25	43.24	15.11	—	—	—	—
8 th	S 27 N	125'	41.33	—	16.36	—	—	—	—
9 th	S 14 N	223'	37.57	37.59	17.46	—	—	—	—
10 th	S 1 N	225'	34.14	34.16	17.50	—	—	—	—

Journal Master, from *Antwerp* towards *St. Jago*

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

N.E.	1 st part Moderate & pleasant	
N.E.	2 nd " " " " " " " " " " " "	
E.N.E.	3 rd Fine gales & Cloudy	Cloudy
E.N.E.	1 st part fine Breezes & Cloudy	1 P.M. took in small jaily
E.S.E.	3.30. P.M. saw the Eddystone Light House	near 3 W.M.
N.N.E.	4. P.M. it bore N.N.W. Dist 3 Leagues, Ends. Moderate	
W.N.W.	1 st Moderate Breezes & pleasant	Weather
S.W.	2 nd Cloudy with squalls of Rain	
W.S.W.	3 rd Cloudy with hard squalls	
"	4 th More moderate & Cloudy	
W.S.W.	1 st part - Moderate with Rain	
West.	2 nd " " Squally	" " " "
N.W.	3 rd " " " " " " and Calms	
S.W.	4 th " " " " " " but more Clear & less Rain	
S.W.	1 st part. Moderate & Squally. with Rain	
"	2 nd " " Fresh Breezes & Squally	" " " "
S.E.	3 rd " " Light Airs	" " " "
"	4 th " " Moderate. Looking Squally	
East.	1 st part moderate & pleasant	
N.E.	2 nd " " " " with light squalls of Rain	
N.N.E.	3 rd " " " " " " " "	
"	4 th " " " " " " " "	
N.E.	1 st part. Light Breezes & pleasant	Weather
E.N.E.	2 nd " " " " " " " "	
S.E.	3 rd " " " " " " " "	
Variable	4 th " " " " " " " "	
East.	1 st part. Moderate with light squalls of Rain	
N.E.	2 nd " " " " " " " "	
N.N.E.	3 rd " " " " " " " "	
Variable	4 th " " " " " " " "	
N.E.	1 st part Light Airs & very pleasant	1 P.M. Mr. Burriel. our
E.S.E.	2 nd Officers went in the Stern Boat on, 10 th a ship that was Dist ^d	
N.N.E.	about 4 th she was from Cherbourg (France) bound to Martinico	
E.S.E.	1 st part Moderate & squally	
"	2 nd fresh Breezes & flying Clouds	
E.N.E.	3 rd " " " " " " " "	
"	4 th fresh Gales & squally	
E.S.E.	1 st part. Moderate & Squally times	
N.E.	2 nd " " " " " " " "	
S.	3 rd " " " " " " " "	
"	4 th " " " " " " " "	

Journal, in the Ship Hazard Rich?

Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Dec ^r 11 th	S 22 E	130	32.16	32.12	West 16.53	West	N th	West	West
12 th	S 5 W	44	31.28	31.26	16.58	---	---	---	---
13 th	S 41 E	28	31.5	31.3	16.36	---	---	---	---
14 th	South	39	30.24	30.23	16.36	---	---	---	---
15 th	S 19 E	57	29.29	29.30	16.14	14.1	---	---	---
16 th	S 2 E	73	28.17	28.18	16.11	13.58	---	---	---
17 th	S 28 W	83	26.29	26.28	16.38	---	---	---	---
18 th	S 46 W	177	24.25	---	18.58	---	---	---	---
19 th	S 54 W	148	22.50	22.48	20.1	---	---	---	---
20 th	S 16 W	128	20.45	20.43	21.39	---	---	---	---
21 st	S 4 W	171	17.53	17.55	21.52	---	18.25	21.45	am 15.39

Journal, in the Ship Hazard N^o.

Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Dec ^r			North	North	West				
22									
23									
27 th	S 17° E	145'	12. 37	12. 35	22. 41	---	---	---	---
28 th	S 17° E	208'	9. 19	9. 18	21. 39	---	---	---	---
29 th	S 10° E	162'	6. 39	6. 40	21. 11	---	---	---	---
30 th	S 2° E	80'	5. 20	5. 22	21. 8	---	---	---	---
31 st	S 19° W	16'	5. 7	5. 10	21. 14	---	---	---	---
1803 Jan ^y									
1 st	S 44° W	54'	4. 31	---	21. 51	---	---	---	---
2 ^d	S 10° E	28'	4. 4	4. 6	21. 46	---	---	---	---
3 ^d	S 4° E	50'	3. 16	3. 17	21. 43	---	4. 2	21. 44	11. 17 W am
4 th	S 26° W	40'	2. 41	---	22. 00	---	---	---	---

Gardner Master, from Antwerp towards St. Jago's -

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

NNE	1 st Part fine Breezes & pleasant Weather, 2 nd part D ^o but more mod-
NEE	erate, 3 rd part Cloudy, 3. a.m. hove too, 5.30 bore away & made all sail
ENE	6. a.m. saw the Island of St. Jago, bearing West. 3 or 4 leagues & saw the
NE	Island of Bonavista near 4 Leagues -
NE	Fine Gale & Cloudy 2. P.M. saw the Isle of May. S.W. W 6 or 7 Leagues
"	3.30 P.M. saw St. Jago's West. 7. P.M. hove too & 8 made sail 3. a.m.
"	wore Round to N. E. & 5 bore away & 8 stretched into the Isle of May 11.30
NE	a.m. anchored in Praya Bay -
NE	1 part Moderate Breezes & pleasant, 8. P.M. got under Weigh in C ^o with
"	the Ship Governor Strong of Boston. Capt Moreland, who is bound through the
"	Streights of Lunda - & 9 Port Praya bore NW 5 miles, going under easy Sail - 6. a.m.
NEE	find the Gov. Strong to be under the same sail - 10. a.m. the fat S. R. Sails
NEE	Gentle Gale & Hazy - 3. P.M. lay with all & 4. P.M. S. S. aback, for the
"	Gov. Strong to come up, & 4 filled away & 5 set S. 9 th Sails - 8 in Staysails 5. a.m.
ESE	the Ship 8 or 10 miles astern Ends moderate Breezes & pleasant, find that
ESE	we leave the ship much faster since the wind shifts
ESE	1 st part Moderate Breezes and pleasant Weather can but just
ESE	discern the Gov. Strong astern - very warm, -
ESE	2 nd part Moderate & little Hazy
ESE	3 rd 4 th D ^o D ^o D ^o D ^o
ESE	1 st part Gentle Gale & pleasant Weather (4 P.M.) caught 2 Bonetas
ESE	2 nd " looks Squally - took in fm all Sails -
ESE	3 rd " light Airs with Calm's, cloudy &
ESE	4 th " Moderate & looks Squally, a long swell from N. E.
From SWNW	1 st Light Airs & Variable, with small Squalls of Rain -
to S. East,	2 nd Ditto . . . Ditto & calm at times -
N. E. very	3 rd 4 th D ^o D ^o D ^o D ^o with Rain -
variable	
SE	1 st " light Airs looks Squally, every part point of the compass
SE	& 5.30 P.M. spoke a Brig ^o bound to Africa, the Capt judged he was
SE	in 17.30 West Long ^o - 3 rd 4 th parts looks very Squally, Thunder & Distance
NNE	& vivid lightning from the North - heavy Rain -
NNE & Calm	1 st light Airs, & Calm times, with very heavy Rain. 1 P.M. Thunder
North	2 nd Moderate, with steady fine Rain
West	3 rd Ditto & more clear -
S. W.	4 th Ditto
Variable	1 st " light Airs & Variable & something Cloudy
from S. W.	2 nd Squally, with heavy Rain
to N. E.	3 rd " More Moderate Ends pleasant
Variable	1 st " Moderate & pleasant Weather
from N. E.	2 nd " Squally, and heavy Rains, took in small Sails -
to East	3 rd " Light Airs, with Rain
	4 th Ditto

Journal, in the Ship Hazard. R. Far

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
1803			N ^o	S ^o	West				
Jan ⁵	S 35 ^o W	101	1. 19	1. 21	22. 57	---	---	---	---
6 th	S 39 ^o W	107	0. 2 S th	0. 0	24. 4	---	---	---	---
7 th	S 30 ^o W	123	South	South	25. 5	---	---	---	---
8 th	S 22 ^o W	162	4. 14	4. 13	26. 6	---	---	---	---
9 th	S 26 ^o W	156	6. 33	6. 32	27. 14	---	4. 45	26. 27	5. 4 th
10 th	S 32 ^o W	170	8. 56	8. 54	28. 45	---	8. 24	28. 28	3. 35 th
11 th	S 10 ^o W	172	11. 43	11. 41	29. 17	---	9. 26	28. 58	3. 23 th
12 th	S 2 ^o E	190	14. 51	14. 50	29. 11	---	---	---	---
13 th	S 9 ^o W	179	17. 47	17. 46	29. 40	---	15. 34	29. 11	1. 57 th
14 th	S 12 ^o W	167	20. 30	20. 31	30. 17	33. 7	19. 33	33. 0	1. 2 th
15 th	S 18 ^o E	130	22. 34	22. 30	32. 24	---	---	---	---

dnw Master, from *St. Sago's* — towards *Cape of Good Hope*

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
S. E.	1 st part. light Breezes and much Rain, 5. P.M. in F. & Miz. T. G ^t Sails
S E b S.	2 nd " " Gentle Gale. flying Clouds. & appearances of a Current
S. S. E.	3 rd " " Moderate & pleasant
- Ditto -	4 th " " " " " "
S. S. E.	1 st " " Gentle Breezes & pleasant Weather, 5. P.M. saw a sail
" "	to W. W. W. of us standing to W. Northw rd
" "	2. 3 rd . 4 th Moderate & pleasant Weather
S. E.	1 st " " Moderate Breezes and pleasant Weather
S E b S.	2 nd " " " " " "
S E b S.	3 rd & 4 th " " " " " "
S. E.	1 st " " Gentle Gale with flying Clouds, a short tumbling Sea from
" "	the S. S. E. - 2 nd part 2 nd D. - 10. A.M. carried
S E b S.	away - one of the F. T. M. back stays, in F. & M. T. G ^t Sails, Ends gentle
S E b S.	Gale & Hazy. Employ'd in setting up Backstays
S E b S.	1 st " " Gentle Gale. and flying Clouds
S E b E.	2 nd " " Squally - with heavy Rains
S. E.	3 rd " " Sep. Squally & Rainy - and
" "	4 th " " fine Gale. flying Clouds. and very pleasant Weather
S E b S.	1 st " " Gentle Gale with flying Clouds
S. E.	2 nd " " Ditto
" "	3 rd " " Ditto and very pleasant
" "	4 th " " Ditto
S. E.	This 24 Hours begins and Ends with Moderate Breezes and
S E b E.	pleasant Weather, people employ'd in Altering & mending Sails &c
E. S. E.	This 24 Hours, Gentle Gale & pleasant Weather
E b S.	11. 30 A.M. saw a Ship Bear ^g East. steering to the N. N. E.
E. S. E.	
E b S.	1 st part Moderate Breezes & Cloudy
E. S. E.	2 nd " " small squalls & fine Rain
S. E.	3 rd " " Gentle Breezes & pleasant
S E b E.	4 th " " " " " " saw a man of War bird
S E b E.	This 24 Hours, Gentle Breezes and pleasant Weather. 8. A.M. saw a
{	number of birds, the Observed Observation of Longitude was taken by O & C
{	3 sets & worked by Dunthorn & Witchell's methods. & likewise by Margott's Tables, &
{	alter the Longitude materially in the Azimuths taken above
from S E b E	1 st part Mattering Breezes & looking Squally
to East, -	2 nd " " Moderate and pleasant Weather 11. A.M. lowered
E. S. E. and	down stern boat and the Copper on Ships bottom looks in very bad Order
N. E.	being off in many places & in large pieces Ends almost calm

Journal, in the Ship Hazard. R.^d Gar

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Jan ^y 16 th	S 24° E	90'	South 23.52	South 23.51	West 31.45	West	31	West	
17 th	S.E.	111'	25.9	25.9	30.20	---	24.00	31.40	1.8 W
18 th	S 34° E	140'	27.5	27.3	28.53	27.25	---	---	---
19 th	S 47° E	130'	28.34	-----	25.37	-----	---	---	---
20 th	S.E.	119'	29.57	29.58	24.2	-----	---	---	---
21 st	S 31° E	135'	31.53	31.51	22.41	-----	---	---	---
22 ^d	S 52° E	164'	33.32	-----	20.7	-----	---	---	---
23 ^d	S 49° E	180'	35.30	35.28	17.23	---	---	---	---
24 th	S 64° E	130'	36.25	36.27	14.58	-----	36.35	15.33	7.49 W
25 th	N 48° E	94'	35.24	35.26	13.33	-----	---	---	---
26 th	N 52° E	79'	34.37	34.37	12.17	---	---	---	---

Master, from *S. Jago's* — towards the *Cape of Good Hope*

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
E b S - E b N - N E b E -	This 24 Hours begins light Airs. smooth Sea. and pleasant Weather 7. a. m. saw a Whirlwind, 3 Boobies & one Albatross Ends light Airs inclining to Calm, and excessive Warm
N E b E - N N W -	This 24 Hours, moderate Breezes and pleasant Weather. saw a number of birds
N W - N W W - N W - - - -	1 st part Moderate Gales and pleasant Weather - 2 nd " " Moderate and Cloudy & looks Squally - 3 rd " " 4.30 a.m. saw a Brig ^t . with Spanish Colours Steer E N E Ends fine Gales & small Squalls -
N W - N W - N E b E - North -	1 st " " Fine Gales and Cloudy. looking Squally - 2 nd " " very moderate, Wind variable & heavy Rain - Ends Squally. with Rain -
from East to West by North by Sth.	This 24 Hours. Variable winds. with Squalls. & much Rain with heavy Thunder & vivid lightning and confused Sea
N W - N b W - N b E -	1 st " " Moderate Breezes and looking Squally 2 nd " " " " with small Squalls 3 rd " " Squally with much Rain - Ends Gentle Gales & Heat
N b E - N N W - - - -	1 st " " Fine Breezes & very pleasant Weather 2 nd " " " " " " " " 3 rd " " Squally " with Rain " - Ends cloudy
N E - North - - - -	1 st part Gentle Gales and Cloudy Weather 7 P.M. the wind hauled West. in a Squall. 9 P.M. to the North, Ends fine Gales & Cloudy. with Rain at times
North - N N W - West to S E	1 st " " Fine Gales with flying Clouds & small Squalls 2 nd " " Squally with fine Rain (see 4 Albatrosses) 3 & 4. Wind variables from N. to S. & S. E Moderate & Cloudy -
S b S - S E - S E b E -	This 24 Hours. Moderate Breezes and pleasant Weather. all hands employ'd in unbending M. & M. S. sails. F. Sail. M. T. G. Sail & Shanties & bending old ones. 6.30 P.M. saw Tristan D. Cunha
S E - - - - S S E -	This 24 Hours Moderate Breezes & Cloudy. with fine Rain at times. a smooth Sea - & all hands Employ'd in mending Sails between Decks &c &c

= bearing S W b S & S Distant about 20 Leagues -

Journal, in the Ship Harvard. R. Gard -

Date. 1803.	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Jan ⁴ 27 th	S 74 E	159	South 35.18	South 35.17	West 9.24	West 6.45	—	—	—
28 th	S 78 E	200	35.58	35.57	2.46	—	—	—	—
29 th	S 85 E	180	36.12	36.12	East 0.55	—	—	—	—
30 th	S 85 E	105	36.21	36.20	3.4	—	—	—	—
31 st	S 74 E	187	37.11	37.9	6.45	—	—	—	—
Feb ¹ 1	S 80 E	150	37.14	37.15	10.3	—	—	—	—
2	N 56 E	148	35.56	35.55	12.31	—	—	—	—
3	S 5 W	97	37.32	—	12.20	—	—	—	—
4 th	S 30 E	47	38.12	38.12	12.49	—	—	—	—
5 th	N 65 E	76	37.40	37.39	14.15	—	—	—	—
6 th	N 73 E	90	37.13	37.9	16.3	—	—	—	—

Gardner Master, from *St. Jago's* towards the Cape of Good Hope

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

S.E. & S.	This 24 Hours. Moderate Breezes. smooth Sea. and pleasant Weather. see a number of Albatrosses & one Whale
S.E.	
S.E. & S.	
S.E. & S.	1 st part. Moderate Breezes and Cloudy Weather -
S.E. & S.	2 nd " " " " " "
Calm	3 rd Calm. with fine Rain -
S.W.	4 th a Fine Breeze with small Squalls. appearances of a Current
S.W.	This 24 Hours, fine Gale, & pleasant Weather. see a number of birds but not one Cape Pidgeon as yet, passed through much Coloured water like as Mollasses. judge it to proceed from the Whale
S.W.	Sallow a Current N. Westerly 24 th the worst disagreeing very much -
South	Moderate Gale, and pleasant Weather all this 24 Hours.
S.E.	8. P.M. Tack ^d Ship to 4 th S.W. - employ ^d fitting a new pair of
S.E.	things for Main Yard
Variable	Begins Light Air from the S.E. and Variable 2 & 3 Points. from
Calm	Midnight to 8. A.M. Calm - Obs ^d the water to look Coloured. hove too &
N.E.	sounded, no bottom with 100 Fath ^s . of line - lost lead & line of 98 fath ^s
North	This 24 Hours, Gentle Gale, with small squalls throughout the
N.W.	Night, 8.20 A.M. by an Indifferent Lunar Obs ⁿ . made the
West	Long th 23.56 E. being cloudy & an unfavourable time think it not accurate
S.W.	
S.W.	This 24 Hours. Gentle Gale and pleasant, 8 & 9. A.M. determined
S.E.	the Longitude 23.26 E. taking the mean of 9 sets which agreeing
S.E.	very near & worked by diff ^t . methods. conclude it sufficiently exact -
East	as the dead reck ^g disagrees very much Sallow a N.W. Current 1 mile p ^r Hour
S.E.	This 24 Hours. Moderate and pleasant Weather. Midnight hove
"	too & sounded, but no ground with 116 fath ^s . saw several gannets
S.W.	Meridian sound ^d 79 fath ^s . Sand & Ore & broken shells very fine -
S.W.	Sallow nothing for Current this 24 Hours as the Lat ^g agrees -
S.W.	8. P.M. sounded 50 fath ^s Sand - Midnight 65 fath ^s Ore 4. A.M. 75 fath ^s
South	yellow Sand with rotten Stones - 4.30 saw Cape Lagullas, for Agullias, N.N.E.
S.W.	7 leagues, Gunner's Quoin N.W. I have worked this day up to 4.30. A.M. taking
S.W.	in the Bear ^g & Dist ^g of the Cape, which remains as Lat & Long th of Cape by D. Reck ^g & acc ^t
South	4 P.M. C. G. Hope bore S.E. & S. 6 P.M. hauled off S.W. 2. A.M. stood in for the
N.W.	Land - Meridian came to Anchor in Table Bay. blowing very hard from
N.W.	4 th S.E. - the Ship Franklin Moses Townsend Master. from Bengal for Salem
S.E.	is laying here having got dismantled off the Cape G. Hope, to sail in 20 days
Land and	11. A.M. went on Shore. - Capt Gardner, not enjoying good health
Sea &	has concluded to tarry here & take passage to America, cons ^t
S.E. & N.W.	titling in his room Henry Tibbets as Master, & say

Journal, in the Ship Hazard. H. Tibbets

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Feb ^y 21	S 63 ^o W	37'	South 34.12	— " — 34.16	East — 17.54	— " — ~~~~~	~~~~~	~~~~~	~~~~~
22	S 43 ^o E	125'	35.47	35.45	19.38	~~~~~	~~~~~	~~~~~	
23	South	83'	37.9	37.9	19.38	~~~~~	~~~~~	~~~~~	
th 24	S 25 ^o E	161'	39.35	39.36	21.4	~~~~~	37.40	20.3	26.34 West
th 25	S 63 ^o E	71'	40.0	40.7	22.26	~~~~~	~~~~~	~~~~~	
th 26	N 82 ^o E	72'	39.57	39.57	24.~	~~~~~	~~~~~	~~~~~	
th 27	N 79 ^o E	142'	39.29	39.28	27.4	~~~~~	~~~~~	~~~~~	
th 28	N 83 ^o E	200'	39.4	39.3	31.19	~~~~~	39.1	27.30	26.30 West
Mch ^y 1	N 86 ^o	196'	38.50	38.50	35.30	38.4	~~~~~	~~~~~	
2	N 80 ^o E	215'	38.42	38.43	40.7	42.32	~~~~~	~~~~~	
3	N 88 ^o E	204'	38.34	38.35	46.55	~~~~~	~~~~~	~~~~~	

Master, from the *C. G. Hope* towards *Bengal*

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

S.W. West
N.W. This 24 Hours Gentle Breezes & pleasant Weather. 5 P.M. got under weigh & at the same time the Ship *Switt* Capt Beare anchored from N. York bound to Bengal. to sail in 48 Hours. 7 P.M. Table Hill S.W. 4 Leagues, 10 A.M. saw Land S.E. & E.

W.S. 1st part. begins fresh Breezes & Squally.
S.S. W. 2nd " " " " and Cloudy. with a disagreeable tumbling
South Sea. Ends moderate & pleasant, Sallow 12' N. Westerly Current

S.S. E. This 24 Hours moderate Breezes & pleasant Weather
S. E. with a long swell from the S. W.
S.E. E.

E.S. This 24 Hours moderate Breezes & pleasant Weather, wind variable
East throughout the Night. keeping a good look out for Telemague Shoal -
E 1/2 S.

East 1st part fine Gales and pleasant Weather
E.S. 2nd " " " " Breezes & Cloudy
" 3rd " " " " Stiff Gales & Squally. Ends fresh Breezes & Cloudy. with a disagreeable tumbling Sea

E.N.E. Commences with Moderate Breezes & Cloudy with a long swell
N.E. from the Westwnd. Middle part Moderate & Cloudy
West saw numbers of birds such as Albatrosses, Petrel &c &c. I expect we have
N.S.W. a N.E. Current. Ends as above (wind & weather)

S.W. 1st part. Moderate breezes and pleasant Weather. 2nd part. Squally
W.S. with vivid lightning. 3rd part. Moderate & Cloudy. Caught 7. Albatrosses with hook & line (one measured 11 feet 4 inches from tip to tip of the wings. Ends moderate & pleasant. I expect a Current sets us N. Easterly

East North 1st part Moderate Breezes and pleasant Weather -
N.W. 2nd & 3rd parts. Squally times with showings of Rain. a large sea following us. Ends cloudy & looking Squally aftern. I still expect we have N.E. Current.

N.W. Commences with fine Gales flying Clouds. & considerable of a sea
N.W. from the N.W. - Squalls & Rain throughout the Night. Ends fine Gales
N.W. looking Squally. I find by very good lunar Obs.^{ns} that we have been in a N. Easterly Current. as expected for some days past by work of Traverse Table

N.W. 1st part. fresh Breezes & looks Squally. 4 P.M. pleasant
N.W. 4.57.30 the Longth by a good lunar Obs.ⁿ was 38.49 E. agreeing by 4
N.W. methods within 2' of each other & within 9' of Yesterdays. I conclude it a good Observation. Ends fine Breezes & large Sea for which I have allowed 15'

N.W. This 24 Hours Gentle Gales & pleasant Weather. I work my
West Longitude from Yesterdays Lunar Observation. considerable of a
Sea this 24 Hours for which I allow 10' (our Glass rather short & line full long)

Journal, in the Ship Hazard, H. T.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Mch			South	---	East	---			
4 th	N 86 E	129	38. 26	38. 25	49. 39	---	---	---	---
5 th	N 89 E	184	38. 21	38. 23	53. 33	---	---	---	---
6 th	N 87 E	140	38. 15	---	56. 31	---	---	---	---
7 th	N 88 E	190	38. 9	---	60. 32	---	---	---	---
8 th	N 83 E	149	37. 51	37. 48	63. 40	---	---	---	---
9 th	N 72 E	162	36. 58	36. 59	66. 53	---	---	---	---
10 th	N 82 E	71	36. 49	36. 49	68. 21	---	---	---	---
11 th	N 68 E	72	36. 22	36. 21	69. 45	---	---	---	---
12 th	N 62 E	41	36. 2	36. ---	70. 30	---	---	---	---
13 th	N 53 E	53	35. 28	35. 20	71. 23	---	35. 55	70. 46	19. 6 W. 1/2 N
14 th	N 47 E	88	34. 28	34. 27. 30	72. 41	73. 49	35. 17	72. 45	18. 25 W. 1/2 N

lets Master, from the Cape of G. Hope towards Bengal -

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

West - 1st part Moderate Breezes and pleasant Weather
 S.W. - 2nd " " Cloudy with small squalls, wind hauling Easterly
 S.E. - 3rd " " light airs & variable. Ends fine gales & pleasant
 N.E. -

N.N.E. 1st part Gentle Gales and Cloudy Weather
 N.W. 2nd & 3rd " fresh Breezes with fine Rain
 S.W. - Ends Moderate & Cloudy

Calm - 1st " Calm, thick & cloudy W. with fine Rain, now & then a cats paw
 N.E. - 2nd & 3rd " Gentle Breezes & fine Rain
 N.N.E. - Ends fine Breeze, looks Squally & rains cheerfully
 North -

North - This day begins & Ends with fine Breezes, attended with
 N.N.E. fog, & much Rain.
 " -

N.W. 1st part light airs & Rainy, calm at times
 West - 2nd " " Gentle Breezes, with small squalls & fine Rain
 S.W. - 3rd & 4th " Ditto . . . & pleasant with a confused Sea -
 N.W. -

N.W. 1st " " Gentle Breezes & Squally
 N.W. 2nd " " more moderate - appearance of a Current
 S.W. - 3rd & 4th " Moderate Breezes & pleasant Weather -

S.W. This day begins with light airs & pleasant Weather, calm
 S.W. in the Night, appearances of a Current which I expect has been
 S.E. setting us to 4th N.E. - Ends as began -
 N.N.E. -

N.W. This day Commences with light airs & Cloudy saw 2. large whales
 N.W. Midnight as above
 N.N.E. Ends with light airs, Smooth Sea (remarkably) clear & pleas^t.
 " -

N.N.E. This day begins with light airs & pleasant Weather with a
 " " little swell from 4th West - Calm throughout the Night -
 " " Ends small Breezes and unsteady -

N.N.E. This day begins and Ends with light airs, remarkably mild
 N.W. & pleasant Weather, but would be more pleasing if we could
 N.W. make more progress towards our Intended Haven, large swell from West
 N.W. -

N.W. This day, light Breezes and pleasant Weather 8. 38. 16 took 13 sets
 N.W. of Distances of 0.5 E & determined the Longth 73. 34 by Bowditch, Witchell,
 N.W. Gunthorne, & Mages's Rules, the greatest in the 4 methods being only 2 1/2 miles.
 " " Difference

Journal, in the Ship Hazard. H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Mch 15 th	N 29 E	100	South 33. 2	33. 1	East - 74. 47	---	---	---	---
16 th	N 33 E	80	31. 48	31. 51	75. 44	---	---	---	---
17 th	N 33 E	172	29. 27	29. 27	77. 34	78. 38	---	---	---
18 th	N 34 E	120	27. 48	27. 48	79. 54	80. 30	---	---	---
19 th	N 23 E	145	25. 34	25. 35	81. 34	---	27. 23	80. 45	22 th Wat 8. 19
20 th	N 26 E	183	22. 51	22. 52	83. 2	82. 55	---	---	---
21 st	N 26 E	193	19. 59	19. 59	84. 27	---	---	---	---
22 nd	N 28 E	194	17. 8	17. 8	86. 3	---	19. 35	84. 45	22 th Wat 4. 38
23 rd	N 14 E	140	14. 52	---	86. 38	---	---	---	---
24 th	N 4 E	76	13. 36	13. 35	86. 43	---	---	---	---
25 th	N 9 E	112	11. 45	11. 44	87. 1	---	---	---	---

Tibbets Master, from the C. J. Hope towards Calcutta -

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

NW
West
NW
NWS
This day Gentle Breezes, something Cloudy, and small Squalls, now & then -

NWS
NW
West
This day Moderate Breeze; and pleasant Weather with a very long and large swell from $\frac{1}{2}$ WSW -

WSW
S.W.
South
S.E.
This day Gentle Breezes and pleasant Weather
9. 43. 42 a.m. had a very good Observation from O & C and judge the long. more correct than last Lunar as the Dist. then was very great

S.E.
ESE
WSW
This day Gentle Gale, and pleasant Weather
10. 3. 44. got a Lunar Observation O & C -

WSW
West
WSW
SW
This day Moderate Breezes and Cloudy saw numbers of very large flying fish -

South
" -
ESE
This day Gentle Gale with small Squalls & fine Rain at times 8. 14. 56 P.M. got a very good Lunar Observation & corrected the time by Altitude & 4 P.M. Deduct. for Easting -

S.E.
ESE
" -
This day begins Gentle Gale and pleasant Weather something Squally throughout the Night
Ends as began -

ESE
" -
ESE
This day commences with fine Gale and pleasant Weather - Squally with Rain throughout the Night
Ends fresh Breezes with a tumbling Sea -

S.E.
ESE
East
This day begins & continues throughout with fresh Breezes, continual Squalls with heavy Rains -

Variable
from N.E.
to E & S
This day begins Squally, with heavy Rain, & light Breezes & so continues until 11 a.m. Ends more Clear -

Variable
from E & S
to N.E. & N
This day begins with Gentle Breezes & Cloudy & so continues till 11 a.m. when it died away Calm with Rain -

Journal, in the Ship Hazard H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Mch # 26	N 28 E	66'	South 10. 46	— " — 10. 47	East 87. 33	---	11. 4	87. 25	0. 36
# 27	N 14 E	102'	9. 8	9. 7	87. 59	---	—	—	—
th 28	N 30 E	133'	7. 12	7. 11	89. 6	---	—	—	—
th 29	N 43 E	107'	5. 53	---	90. 20	---	—	—	—
th 30	N 49 W	85'	4. 29	---	90. 7	---	—	—	—
th 31	N 10 W	53'	3. 37	---	89. 58	---	—	—	—
Apr. 1 st	N 11 W	75'	2. 23	2. 26	89. 44	---	—	—	—
2 ^d	N 16 W	123'	0. 24	0. 22	89. 10	---	—	—	—
3 ^d	N 19 W	107'	North 1. 18	North 1. 21	88. 54	---	—	—	—
th 4	N 23 W	90'	2. 44	2. 42	88. 19	---	—	—	—
th 5	N 18 E	20'	3. 1	3. 2	88. 25	---	—	—	—

Tibbets Master, from C. G. Hope towards Calcutta

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

Calm - Commences with a Calm, a Moderate Breeze throughout
S.E. - the Night with hard Showers of Rain
E.E. - Ends Moderate Gales and pleasant Weather

S.E. - Begins with Moderate Gales and pleasant
Calm - Midnight Calm. Ends fine Gales looking Squally
W.W. -
N.W. -

W.W. - This 24 Hours. Moderate Breezes, and Squally Weather
N.W. - with Rain
N.W.W. -

S.W. - This 24 Hours Moderate Breezes. Variable Winds
N.W. - Squally with heavy Rains. Killed a tropick bird, he fell in the
W.S.W. - stern boat. Skinn'd & stuffed him
North -

N.W. - This 24 Hours Commence Moderate Breezes & Cloudy -
W.S.W. - Midnight more Clear Ends with small Squalls of Rain
W.S.W. -

from - This Day Commence with Moderate Breezes & looking
W.S.W. - Squally. Wind Variable - Ends as above -
S.E. -

N.W. - This day begins moderate Breezes Cloudy with Rain
W.S.W. - Midnight more pleasant
W.S.W. - Ends moderate & pleasant

W.S.W. - This day Moderate & pleasant Weather. throughout
W.S.W. - caught 2 albacores & 2 sharks, see a number of Boobys &
W.S.W. - Noddy's, the ships Bottom we can see, is in a shocking condition

W.S.W. - This day Moderate & pleasant, but excessive warm, we see the
S.W. - copper from Ships bottom go astern, and in a Squall considerable of a piece
from W. to S. - blew into the Stern boat, I certainly think that we have a Current
setting N. & Easterly, today & yesterday the Diff. of Lat. was much more than the Dist.

West - This ^{Day} Gentle breezes and pleasant Weather. Follow
S.W. - 12' N. E. current, caught 5 Bonettas with the Hook
S.W. -

Calm - This day, Calm, most of the time, extreme warm, and
N.E. - makes the Tar to drop between decks from the seams
Calm - lower'd the boat & found a Current setting E.N.E. 1 mile per hour
S.W. -

Journal, in the Ship Hazard - H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia
April 6 th	N 32 W	29'	N th 3. 27	N th 3. 28	East 88. 10	---	3. 15	88. 18	AK th 2. 8 E
7 th	N 23 W	25'	3. 51	3. 50	88. 1	---	---	---	---
8 th	N 23 W	24'	4. 12	4. 10	87. 52	---	---	---	---
9 th	N 19 W	55'	5. 4	---	87. 44	---	---	---	---
10 th	N 16 W	49'	5. 51	5. 52	87. 31	---	---	---	---
11 th	N 22 W	148'	8. 9	8. 9	86. 35	---	---	---	---
12 th	N 17 W	150'	10. 32	10. 34	85. 51	---	---	---	---
13 th	N 19 W	125'	12. 37	12. 37	85. 31	85. 27	11. 14	85. 40	AK th 2. 22 E
14 th	North	47'	13. 24	13. 24	85. 27	85. 41	---	---	---
15 th	N 18 W	60'	14. 19	14. 18	85. 22	85. 54	---	---	---
16 th	N 20 W	112'	16. 3	16. 3	85. 15	85. 10	14. 31	85. 10	AK th 5 miles West

Tibbets Master, from C. J. Hope - towards Calcutta

Winds.

Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

N. S. W. - This day begins with light airs & hazy. with constant Thunder
 S. E. - at a Distance, 5.30 P.M. came up very black & squally. with terrible
 S. E. W. - Thunder & extreme vivid lightning from $\frac{1}{2}$ N. E. & hard Rains

very Variable from N. W. to South - This day light airs & very Variable. saw a large water boat
 with a Calm - 5. P.M. Squally. with abundance of Rain. Thunder &
 Lightning - Ends Calm - caught 2 Bonettas, saw a Ship ahead

very Variable, with Calms - This day. we have Calms at times. at night Squally with
 Rain the Ship that we saw yesterday is disappeared. she was
 steer $\frac{1}{2}$ about N. W. & N. when we saw her last evening

S. S. W. - This day begins with light Breezes & pleasant
 N. N. W. - hear very heavy Thunder at a Distance, constant Thunder &
 N. W. - vivid lightning throughout the Night. Ends Squally with Rain
 N. E. -

N. E. - This day begins with hard Squally & heavy Rains
 N. E. - Midnight Calm - Ends Gentle Gale & pleasant. caught 6
 Calm - Bonettas with hook & line (this morning we found one sow to have 6 fine
 N. E. - pigs. & one of our Cats to have 5 kittens)

N. E. - This day begins with moderate Breezes and pleasant. from
 N. E. & E. - 4 P.M. to Midnight Squally. with heavy thunder & extreme
 " - vivid lightning. passed through several tide rips. Ends Mod. & hazy
 " - current N. W. $\frac{1}{2}$ mile per hour

E. N. E. - Begins moderate & pleasant. little hazy. Midnight small squally
 " - with Thunder & lightning. Ends pleasant. Sallow a Current to
 " - set us N. W. $\frac{1}{2}$ mile per hour. Sallow it westerly ^{as} the course of
 Winds of late, being Easterly

E. N. E. - Begins with gentle Breezes and pleasant Weather
 S. E. - and so continuing to end - Current N. W. $\frac{1}{2}$ mile per hour
 E. E. -

S. E. - Begins with light airs & pleasant from 9 P.M. to 3 A.M. going
 East - $\frac{1}{2}$ knot per hour - Ends light airs & pleasant. Sallow a Current
 N. E. - 12' - this 24 hours
 S. S. W. -

N. S. W. - This 24 hours light airs and pleasant. at 9^h 10.40 True time A.M.
 Calm - the Dist. of O. & C. was 88. 31. 37 - O alt 48. 9 - (alt U. L. 34. 2
 S. W. - Index Error add 1. 15 $\frac{1}{2}$ add $\frac{1}{2}$ deduct
 West - having altered the tapes of the Sextant, it is now very accurate. more so than before

S. S. W. - This day Gentle Gale & pleasant. 9^h 6. 30 true time A.M. the mean
 N. S. W. - & 3 sets of Distances O & C 75. 40. 50 - O alt 47. 9 - (alt 102
 S. W. - Index Error - 1. 15 add $\frac{1}{2}$ add 45. 14 $\frac{1}{2}$ deduct
 West - gives the Long. 85. 14. 30 by Wiche's Lanthorne, & Langelle's methods

Tibets Master, from C. F. Hope towards Calcutta

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

SW - This day Gentle Gale and pleasant, hazy, see birds & fish and the water is colour'd, & if our Lunar calculations are correct we must strike soundings soon on the Coast of Orissa, off Ganjam, which lies in $19^{\circ} 25' N$ and Long $^{\circ}$: $85^{\circ} 7'$ East by Astronomical Observations -

SW - This day Gentle Breeze, Cloudy & Hazy. 8 P.M. sounded in 35 fathoms. Mud. Shorten'd sail & bore away N.E. soundings from 30 to 22 fath. 9 A.M. saw Land. bearing from N. to N.W. about 4 League

SW - This day fresh Breeze & Hazy. soundings 21. 14 & 10 fathoms. 7 A.M. 7 fath. on the Western Reef 11 A.M. saw 5 Sail to leeward, bore away & noon spoke the Ship Manhattan, bound from Calcutta for Batavia, blowing very fresh. She bore away for Saugor

SW - This day Stiff Gale & hazy, heavy Thunder & continual Lightning throughout the Night. 1 P.M. spoke an English Ship & Pilot Schooner. could not get a Pilot. told us to follow them, they also informed us that there was no other Pilot vessel out, but before we came to Saugor, we saw a Pilot vessel at anchor about 1 mile out from the Roads, our Consort Schooner told us we could get a Pilot there. 5 P.M. spoke her, & the Master said we must anchor, we came too under his stern & the

it then blew very fresh & there was a disagreeable Sea, we began getting unweigh immediately, hove in about 30 fath. the wind lapt then split, & render'd every Pull useless, then veer'd away and

secur'd for the Morning by Runners & Tackles, when, after making another trial, it blowing a fresh & fair breeze, concluded it would be more prudent, & more for the safety of the Interests

of the concerned, to loose the Anchor & Cable, rather than tarry in expectation of getting them, therefore, 6 A.M. cut the Cable in the House, expecting to get pretty near to Calcutta by Night

This day noon ends the 20th Sea Actⁿ ~~into~~ but is still the 20th by civil acc^t which 4 P.M. we anchor'd about 12 miles below Calcutta, in drawing up River the wind decreas'd, & at times calm

10 A.M. the Ship arrived at Calcutta

Journal, in the Ship Hazard, H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Vari
<i>July 8th</i>			<i>North</i>		<i>East</i>				
<i>9th</i>	<i>S 18° E</i>	<i>34</i>	<i>20. 12</i>	<i>20. 9</i>	<i>86. 59</i>				
<i>10th</i>	<i>S 7° W</i>	<i>58</i>	<i>19. 2</i>	<i>18. 59</i>	<i>86. 51</i>				
<i>11th</i>	<i>S 26°</i>	<i>79</i>	<i>17. 48</i>	<i>-----</i>	<i>87. 27</i>				
<i>12th</i>	<i>N 74° W</i>	<i>39</i>	<i>17. 59</i>	<i>17. 59</i>	<i>86. 48</i>				
<i>13th</i>	<i>S 83° W</i>	<i>33</i>	<i>17. 55</i>	<i>17. 56</i>	<i>86. 14</i>				
<i>14th</i>	<i>S 42° E</i>	<i>90</i>	<i>16. 49</i>	<i>16. 52</i>	<i>87. 17</i>				
<i>15th</i>	<i>S 47° E</i>	<i>128</i>	<i>15. 26</i>	<i>15. 28</i>	<i>88. 54</i>				
<i>16th</i>	<i>S 14° E</i>	<i>55</i>	<i>14. 35</i>	<i>14. 33</i>	<i>89. 8</i>				
<i>17th</i>	<i>S 6° W</i>	<i>52</i>	<i>13. 41</i>	<i>13. 43</i>	<i>89. 2</i>				
<i>18th</i>	<i>S 4° E</i>	<i>57</i>	<i>12. 46</i>	<i>12. 47</i>	<i>89. 5</i>				

Tickets Master, from *Calcutta* - towards *Salem*

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
Variable in the S.E. Quarter	A. a.m. dropped off of the Western Reef. 13 faths Meridian Judge Point Palmyras to bear S. W. about 12 Leagues from whence I take my Departure. it being in 20.44 N 87.10 East -
S. E. S.E. & E. S.W.S.	Commences with gentle Gales & pleasant. in 13 to 17 faths Midnight 20 to 24 faths Ends moderate & Cloudy with fine Rain & Times
S.W. S.E. & S. E.S.E.	This day Moderate Breezes & Cloudy, with a large swell from the S.W. 10. a.m. set S. S. M. Steer S.W.
East. N.E. N.N.W. S.W.	This day is attended with Variable Winds in Moderate Gales, Cloudy Weather, with fine Rain and a long rolling swell from the S.W. Ends. Rain - down S. S. yards
S.W. S.W.	This day, fresh Breezes & Cloudy P. P.M. wore Ship to Westward
S.W.S. S.W.	This day, gentle Breezes with small Squalls, fine Rain and large Swell from S.W.
S.W. S.S.W.	Commences with moderate Gales and Cloudy - 2. P.M. Squally, with Rain, tacked Ship to the S.S.E. Ends moderate & pleasant, caught 3 Bonettas with hook & line
S.W.S. S.W.	Commences with moderate Gales and pleasant Weather 7. a.m. saw a Ship under our Lee, standing to W. Westw? 8.30 being in our Wake about miles she tacked Ship after us & noon she was entirely out of sight
S.W.S. S.S.W. S.W.	This day, Moderate Breezes and Cloudy 4. a.m. Tacked Ship to W. Southward
S.W.S. S.W.W.	This day, Moderate breezes and Cloudy, see number of birds. P. P.M. Tacked Ship to the Westw? 2. a.m. Tacked to Southw? Ends Bary with a short head beat Sea
S.W.W. S.W. S.W.S.	This day, Moderate Breezes & Cloudy - P.M. in W. S. G. Sail & Tacked Ship to W. Westw? 4. a.m. Tacked, to W. South?

Journal, in the Ship Hazard, H.

Date.	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
1803									
July			North	"	East	"			
10 th	S 12° E	75'	11. 34	11. 33	89. 20				
20 th	S 17° E	144'	9. 15	9. 16	90. 3				
21 st	S 19° E	87'	8. 13	8. 12	90. 23				
22 ^d	S 28° E	99'	6. 45	6. 45	91. 9				
23 ^d	S 29° E	103'	5. 15	5. 15	91. 59				
24 th	South	32'	4. 43	4. 42	91. 59				
25 th	S 17° E	60'	3. 45	3. 46	92. 16				
26 th	S 16° E	73'	2. 36	2. 38	92. 36	92. 13			
27 th	S 27° E	55'	1. 39	1. 41	92. 43	92. 48			
28 th	S 35° E	30'	1. 17	1. 15	93. 05				
29 th	S 31° W	86'	South	South			North		AK th
			0. 11	0. 10	93. 04		0. 10	93. 4	3. 18 E

Tickets Master, from *Calcutta* towards *Salem (Ms)*

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

S.W. S. Commenced with Moderate Breezes and Cloudy
S.W. - 6. P.M. Tacked to $\frac{1}{2}$ N.W. in $\frac{1}{2}$ S.W. fail. Squally, with fine Rain
S.W. W. - 8 took 2 Reefs in the Topsails Midnight Tacked to $\frac{1}{2}$ Southw^d

$\frac{1}{2}$ S.W. This day Fresh Breezes, and Squally, got down $\frac{1}{2}$ M.T. J. masts

S.W. W. This day Fresh Breezes, with some very hard Squally, hard
W.S. W. Rains, and a disagreeable Sea. Midnight took the 3^d Reef in all
Topsails & handed Main Sail - - - - - Ends as begun

W.S. W. This day begins with Fresh Gales & Cloudy Weather 4. P.M.
Reefed the Main Sail, - throughout the Night very severe Squally
& much Rain - - - - - Ends Squally with fine Rain at times

S. W. This day Squally at times, with Rain, 8. A.M. out all Reefs
S.W. W. - see very many birds - - - - -

S. W. This day, light Breezes & Cloudy, with small Squalls at-
tended with Rain - - - - -

S. W. This day, Moderate Breezes, and pleasant Weather, saw
a fail to the Eastward, $\frac{1}{2}$ S.W. to $\frac{1}{2}$ Northw^d - - - - -

S. W. This day Moderate Breezes and pleasant Weather, 2^h 22^m 56^s P.M.
True time the Obs^d Distance of O & C was 73.51.50. - - - - - Dist 51.24. - - - - - Dist U.L. 54.27
making the Long^d same time 91.55 E, being the mean of 3 sets of Obs^d & mean Long^d of 3 methods
Index Error Deduct 2.15 add 12 dead 20

S.W. S. This day light airs and pleasant Weather, inclining to a Calm 2^h 50^m 48^s P.M.
true time the Obs^d Distance of O & C was 85.0.10 the Dist 44.44. - - - - - Dist U.L. 50.0
Index Error Deduct 2.15 add 12 dead 20
The Long^d deduced from this above is 92.23.45 being the mean of 4 Methods, wherein the greatest
difference was 2.15" the above Obs^d is the mean of 3 sets

S. S. W. This day light air, and Calm at times, with a swell from
S.W. S. the Southw^d - - - - -

West This day Moderate and Pleasant, saw a large snake with
W.S. W. Gold Coloured head - - - - -

Journal, in the Ship *Harvard* Henry

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia
			South	—	East				
July 30 th	S 14° W	133'	2. 19'	2. 20'	92. 30'				
31 st	S 18° E	49'	3. 4'	3. 5'	92. 45'				
Aug 1 st	S 68° W	71'	3. 34'	3. 33'	91. 36'				
2	S 31° E	58'	4. 22'	4. 23'	92. 5'				
3	S 14° W	10'	4. 32'	4. 32'	92. 1'				
4	S 53° W	120'	5. 44'	5. 42'	90. 25'				
5 th	S 46° W	180'	7. 47'	7. 49'	88. 15'		6. 15'	89. 50'	am East 4.20
6 th	S 34° W	160'	9. 23'	9. 24'	86. 4'				
7 th	S 56° W	227'	11. 31'	11. 32'	82. 52'				
8 th	S 62° W	230'	13. 28'	13. 24'	79. 17'				
9 th	S 64° W	203'	14. 53'	14. 55'	76. 4'				

Tibbety Master, from Calcutta towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
S. S. E. S. E. S. S. E.	This day Moderate Wind and pleasant Weather P.M. 1.29 took a very good Lunar Observation
S. E. b S. S. E. - E. S. E. -	This day Moderate Wind and pleasant Weather 2.5 P.M. took a good Lunar Observation the Sea appears to be covered with a jelly substance (Portuguese Men of War)
E. S. E. S. E.	This day Moderate Wind & pleasant Weather saw a Booby & many Blackfish
S. E. S. E. b S.	This day Moderate Wind, and pleasant Weather, but extreme Warm
S. E. b S. - -	This day Moderate Wind & pleasant, but very warm All hands employ'd laying up Rigging, which is somewhat tedious
S. E. b S. - S. E. -	This day Moderate Wind & extreme Warm, - It is 14 days Old
S. E. b S. S. S. E. S. E. b S.	This day Moderate Wind & extreme Warm, particularly in laying up Rigging, unshaded.
S. E. b S. E. S. E. S. E.	Commences Moderate Wind & pleasant, 9. P.M. Squally with Rain from the E.N.E. for 1 hour, Midnight Squally from E.S.E. with small Rain - Ends Moderate & pleasant
S. E. b S. S. E. b S. S. S. E.	Commences Moderate Wind and pleasant Weather, 9. P.M. Squally with Rain from E.N.E. for 2 hours, nearly, but little Wind - Midnight light Squally from S.E. b S. - Ends Moderate & pleasant
South - S.W. to S. E. S.W. to N.E.	This day light airs & Cloudy. Wind very Variable, hoisted out the jolly Boat & tried the Current found 1/4 knot setting S. S. E. hoisted the boat up at the stern. by Traverse Table there dont appear any Current
Calom from S. to East Calom -	This day Calm's, with very Variable Winds at times - small Rain, D ^o Squalls & Cloudy throughout

Journal, in the Ship Hazard, Henry

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Aug. th			South	-	East				
10 th	S 70° W	170'	15.53	15.54	73.14	71.13			
11 th	S 56° W	196'	17.44	17.45	68.54				
12 th	S 48° W	181'	19.46	-----	66.33	-----			
13 th	S 57° W	170'	21.18	21.20	64.3	64.4	20.4	66.8	AK. West 6.30
14 th	S 58° W	180'	22.55	22.55	61.18	-----			
15 th	S 56° W	221'	24.59	25.0	57.58				
16 th	S 61° W	182'	26.28	26.31	55.0	-----	25.59	55.39	AK. West 14.54
17 th	S 65° W	163'	27.40	-----	52.14	-----	26.44	54.29	AK. West 16.31
18 th	S 49° W	116'	28.57	28.57	50.34				
19 th	N 47° W	77'	28.5	28.5	49.29				
20 th	West	132'	28.5	28.7	46.50				

Thet's Master, from Calcutta

towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
S. b. W. South S. b. E.	This day, Brisk Breezes, with Squalls & fine Rain 5. a. m. saw a French Frigate at a short distance under our lee Ends with a disagreeable Sea, we beat the Frenchman, more than could Expect
S. b. E. S. E. S. E.	This day Gentle Gales with small Squalls, Cloudy, with fine Rain at times
S. E. S. b. E.	This day, Brisk Breezes at times, with fine Rain
S. b. E. S. E.	This day, Moderate Wind & Pleasant Weather, got a very good Observation from O ⁴ C. to Determine the Longitude, taking the mean of 5 sets
S. E. S. E. S. E.	Commences with Moderate Wind & pleasant Weather at Midnight Squally weather with fine Rain Ends Moderate Wind & pleasant Weather
S. E. S. E.	Commences with Moderate Wind, with small Squalls, times Middle & Latter parts, clear & pleasant Weather
S. E.	This day, Moderate Wind, & remarkable, Pleasant
East S. b. N. N. b. E.	This day Moderate Wind & pleasant Weather 3. a. m. Gybed Ship - at Noon, the Clouds come from 7 th S. W.
N. E. S. W. North W. N. W.	This day Commences with Cloudy & very Squally, Weather from 7.30 to 9 P. M., dreadful Thunder & extreme vivid Lightning Wind very Variable - Ends with hard Gale & cloudy
W. b. S. W. S. W. S. W. W. S. W.	This day Brisk Wind & Squally Weather, with Rain, saw 3 albatrosses & a number of Cape Pigeons
S. W. W. S. W. S. South	This day Moderate Wind, with flying Clouds, the D. R. F. disagreeing much from O ⁴ S. I correct by a S. W. Current 20' as the Glass & Line is in order

Journal, in the Ship Hazard. Henry

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Aug th 21	S 82° W	105	South 28° 30'	28° 29'	East 43° 27'				
22	S 81° W	146	28° 50'	28° 52'	40° 42'				
23	S 85° W	137	29° 4'	29° 5'	38° 6'	38° 1'	28.55 28.57	40.5 40.0	az ⁿ 24.33 am. 24.18
24	S 73° W	150	29° 49'	29° 51'	35° 20'	35° 15'			
25	S 66° W	182	31° 4'	31° 4'	32° 3'		30.7	34.45	az ⁿ West 27.31
26	S 64° W	194	32° 29'	32° 33'	28° 30'				
27	S 24° W	62	32° 30'	33° 30'	33° 32'				
28	S 20° W	72	34° 39'	34° 39'	27° 39'				
29	S 41° W	21	34° 55'		27° 22'				
30	S 81° W	32	34° 50'	34° 47'	26° 33'				
31	S 76° W	117	35° 14'	35° 15'	23° 15'				

Tibbets Master, from Calcutta . . . towards Salem

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

South
S.E.
E.S.E. This day Moderate Wind & Cloudy, with small Squalls & fine Rain at times. I allow 24' S.W. Current as the D.R. disagrees & the Glass & Line is correct.

C.S.E. This day, Moderate Wind, & very pleasant Weather, I allow 24' S.W. as Current as the D.R. disagrees much, from Obs^{ns}.

South
S.E.
S.E. This day Moderate Wind, & remarkable pleasant Weather, 1.25.54 determined the Longth by O & C 40.30¹/₂ I allow S.W. 12' for current

S.E.
" " This day Moderate Wind, and very pleasant Weather, 2.00 determined the Longth by O & C 37.47 carried forward to Noon is 35.15, I allow S.W. 24' for current, by Lunar Obs^{ns} it proves that we have been set to the Westw^d since the last.

East
E.N.E.
N.E. This day is attended, with Gentle Gales, flying Clouds & a little fine Rain at times.

N.E.E. This day, Brist Wind, & Hazy Weather.
Ends moderate Wind & colour'd is the Water
and a tumbling Sea, comes from every Quarter

N.S.W.
West
N.W.
N.E. Commences with Moderate Wind & Hazy, 4. P.M. saw the Land
Bearing from N.W. to N.E. 5. P.M. Tacked Ship to $\frac{1}{2}$ S.S.W.
Midnight vivid lightning in the West & looks very Squally. Current S.W. 40'
Ends moderate & Variable Wind

N.W.
N.W.
N.W.
North Commences moderate Wind & Cloudy & looks Squally, 8. P.M. very heavy
Thunder & extreme vivid lightning from $\frac{1}{2}$ North
Ends moderate Wind & Cloudy
caught 1 albatross

N.W.
N.W.
Calm
S.W. Commences moderate Wind & Cloudy & Midnight Calm
4. a.m. hard Gales & Squally & hove too under Reefed F. Sail
& 10 set Reefed Main Stay Sail, carried away the Lee Davit & Damaged
the Boat, got the boat on Deck

S.W.
S.W.
S.W. Commences Hard Gales & Squally, dying too under Reefed F. Sail & D. Mix. Stay
Sail 1. P.M. set Close Reefed Main F. Sail & 11 set Close Reefed
F. Sail
Midnight moderate Wind & Cloudy, 8. a.m. all hands Employ'd
getting up F. Sail & Masts & Yards, out Jib Boom & Spritsail Yards, up Mix F. S. Y. & Cross Jack Y.
see app^lail

S.W.
Calm
E.N.E.
N.E. This day Moderate & pleasant Weather
caught 3 albatrosses Current S.W. 18.

Journal, in the Ship Hazard H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Sept.			South	.....	East	.....		
1	S 84 1/2 E	142	35. 29	.....	20. 23	.....		
2	N 66 W	70	35. 0	.....	19. 5	.....		
3	N 60 W	140	33. 50	.....	16. 38	.....		
4	N 40 W	180	31. 31	31. 3	13. 55	.....		
5	N 45 W	133	29. 29	29. 28	12. 6	.....		
6	N 42 W	90	28. 21	28. 19	10. 56	.....		
7	N 43 W	55	27. 39	.....	10. 14	.....		
8	N 37 W	85	26. 31	.....	9. 17	.....		
9	N 62 W	104	25. 42	25. 44	7. 37	5. 26	7. 33		
10	N 14 W	66	24. 40	.....	6. 8	.....	7. 33	6. 23	22. 25
11	N 59 W	53	24. 13	24. 12	5. 18	.....		

Tibbets Master, from Calcutta towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
East West W.N.W.	This day Moderate Wind, Heavy Weather, 8 A.M. hove too, and found 95 fathoms mud.
N.W.W. W.N.W. West W.S.W.	This day Moderate Wind & Heavy Weather, 2.30 P.M. saw Land from N.E. to N.E. & E. 3 P.M. Tacked Ship to $\frac{1}{2}$ S.W. Ends Brisk Wind & Squally
S.W.W. S.W.	Shift Pales & Squally, with steady Rain 4.30 P.M. in F. & M. T. Sails 7 P.M. Ruled the F. Sail hard Gales and Squally. Midnight a very severe Gale. 5 A.M. shipped a Sea & stove in a part of the Bulwarks & split the plank there. Ends Brisk Wind
S.W.W. W.S.W. W.S.W. S.W.	Brisk Wind & dirty Weather. Midnight more moderate, set more Sail. 2 A.M. got up all S. & G. Mast & began to make all Sail. Since last Obs ⁿ the Lat ^d differs very much & to day I allow $\frac{1}{2}$ S.W. 40 & only correct the longitude
W.S.W. W.S.W. S.W.	This day, Moderate Wind and pleasant Weather (except a few light squalls of Rain) Current N.W. 18 miles
W.S.W. S.S.W. S.S.E.	This day, Moderate Wind and very Variable, from the beginning to Ends, a swell from $\frac{1}{2}$ S.W.
S.W. to S.E. Calm West to N.W.	First part, begins moderate Wind & very Variable, Cloudy & Heavy. Middle part light airs & calm at times. Latter part, light airs & very Variable, Cloudy, & a swell from $\frac{1}{2}$ Westw?
Variable from N.W. to West, and S.W.	This day, light airs & very Variable, attended with 2 small squalls of Wind, caught 3 Cape Pigeons with hook & line, there being a number following us, & one Albatross
S.E. & S. East - Variable, N.W.	This day begins with a fine Breeze and pleasant Weather. Ends with light airs & Variable from $\frac{1}{2}$ N.W. quarter. Curr. $\frac{1}{2}$ N.W. got a good Lunar Obs ⁿ for the Long ^d taking the mean of 5 faths
N.W. N.W. W.N.W. W.S.W.	This day, Light airs and Cloudy, a swell from $\frac{1}{2}$ S.W.
West W.S.W. W.S.W. Calm	This day light airs and Cloudy, and calm at times, and a long swell from the S.W.

Journal, in the Ship Hazard, H.

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Sep ^r # 12	N 34 W	47	South 23. 34	23. 33	East 4. 49	-----	---	---	---
13 th	N 55 W	145	22. 10	22. 9	2. 39	-----	---	---	---
# 14	N 66 W	168	21. 1	-----	West 0. 5	-----	---	---	---
# 15	N 58 W	104	19. 35	19. 38	2. 34	---	---	---	---
th 16	N 55 W	147	18. 14	18. 17	4. 41	---	---	---	---
th 17	N 52 W	152	10. 44	10. 46	0. 47	---	---	---	---
# 18	N 58 W	157	15. 24	15. 25	9. 5	---	---	---	---
# 19	N 62 W	167	14. 7	14. 9	11. 38	---	---	---	---
th 20	N 55 W	145	12. 46	12. 47	13. 41	---	---	---	---
th 21	N 49 W	150	11. 9	11. 7	15. 38	---	---	---	---
22	N 47 W	154	9. 22	9. 21	17. 33	20. 20	---	---	---

Tibbets Master, from Calcutta towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
S. E. Calm. N.W.W	Begins with a light air from $\frac{1}{2}$ S. E. and from 7 P.M. to 3. A.M. Calm — Ends moderate Wind & Variable from $\frac{1}{2}$ N. & W. with a long swell from $\frac{1}{2}$ S. W. Current 12 miles N. W.
N. W. N.W.N N. S. W S. W. S. E.	This day, Gentle Breezes and Cloudy, Wind Varying regularly from N. W. to S. E. with a good Breeze, when it arrived to that point, & think it may continue
S. E. S. E. & E S. E.	This day, Gentle Breezes and something Cloudy
S. E. & E S. E. & S S. E.	This day, Moderate Wind and Cloudy —
S. E. & E S. E. S. E. & E S. E.	Begins with Moderate & pleasant Weather Midnight very Cloudy Ends Moderate & light Cloudy
S. E. & S S. E. S. E. & S	Begins with Moderate Wind & Pleasant Weather Midnight Cloudy & hazy Ends Moderate & Hazy
S. E. & E S. E. S. E. & E	This day, Moderate Wind, and Cloudy weather. I expect we have a S. W. Current, by work of trawer Tally
S. E. — —	Commences with, Moderate Wind and pleasant Weather Midnight Cloudy, by Work of Dr. we must have considerable of a S. W. Current, Bay, S. West because there is no probability of it's being East
S. E. S. E. & E East S. E. & S	Begins with Moderate Wind and pleasant Weather Midnight thick & very Cloudy Ends Moderate & Cloudy — Saw 1 man of War birds
S. E. — —	This day Moderate Wind and pleasant Weather, saw 2 uncommon large Boobies, very many flying fish, the sea appears to cover'd with a jelly substance, commonly called Portuguese men of War.
S. E. — S. E. & E	This day, Moderate Wind and Hazy Weather, 1 st 38.0 T. Time the mean of 5 fath of Obs. of O.C. made the Long. & same time 18. 31 1/2 W

Journal, in the Ship Hazard, Henry

Date. 1803	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia.
Sep ^r			South	.....	West	.....	9.3	20.13	12.48 ⁿ
23	N44W	136	7.43	7.42	21.56	21.38	9.0	20.19	13.00 ^m
24	N48W	139	6.9	6.11	23.22	23.33	7.24	22.11	11.24 ^m
25	N42W	150	4.19	4.19	25.14	.....	.....	.....	.....
26	N40W	144	2.29	2.29	26.47	.....	.....	.....	.....
27	N34W	156	0.20	0.21	28.14	.....	.....	.....	.....
28	N60W	178	North	.....	.....	.....	.....	.....	.....
			1.0	1.6	30.46	.....	.....	.....	.....
29	N39W	157	3.0	3.10	32.25	.....	.....	.....	.....
30	N38W	132	4.54	4.55	33.46	.....	3.28	32.40	5.42 ^{West}
Oct ^r									
1	N41W	114	6.21	6.18	35.1	.....	.....	.....	.....
2	N36W	74	7.18	7.19	35.45	.....	.....	.....	.....
3	N17W	33	7.51	.....	35.55	.....	.....	.....	.....

Tibbets Master, from Calcutta towards Salem

Winds. Weather, Currents, Bearings of the Land, and Remarkable Occurrences.

S. S. E. This day Moderate Wind and pleasant Weather
S. E. P.M. 1st 29 took a very good Lunar Observation
S. S. E.

S. E. S. This day Moderate Wind and pleasant Weather
S. E. - 2nd 5 P.M. took a good Lunar Observation
S. E. - the Sea appears to be cover'd with a jelly substance (Portuguese Men of War)

S. S. E. This day Moderate Wind & pleasant Weather
S. E. saw a Booby & many Blackfish

S. E. This day Moderate Wind, and pleasant Weather, but extreme
S. E. S. Warm

S. E. S. This day Moderate Wind & pleasant, but very warm
- - - All hands employ'd laying up Rigging, which is somewhat tedious

S. E. S. This day Moderate Wind & extreme Warm, -
- - - It is 14 days Old

S. E. S. This day Moderate Wind & extreme Warm, particularly
S. S. E. in laying up Rigging, unshaded.
S. E. S.

S. E. S. Commences Moderate Wind & pleasant. 9. P.M. Squally with
S. S. E. Rain from the E.N.E. for 1 hour, Midnight Squally from S. S. E.
S. E. with small Rain - Ends Moderate & pleasant

S. E. S. Commences Moderate Wind and pleasant Weather. 9. P.M.
S. E. S. Squally with Rain from E.N.E. for 2 hours nearly, but little Wind -
S. S. E. Midnight light Squally from S. E. S. - Ends Moderate & pleasant

S. S. W. to S. E. This day light airs & Cloudy. Wind very Variable. hoisted out
S. S. W. to S. E. the Jolly Boat & tried the Current found 1/4 knot setting S. S. E. hoisted
S. S. W. to S. E. the boat up at the stern. by Traverse Table there don't appear any Current

Calm This day Calm, with very Variable Winds at times
from S. to East - small Rain, D^o Squalls & Cloudy throughout
Calm -

Journal, in the Ship Hazard, Henry

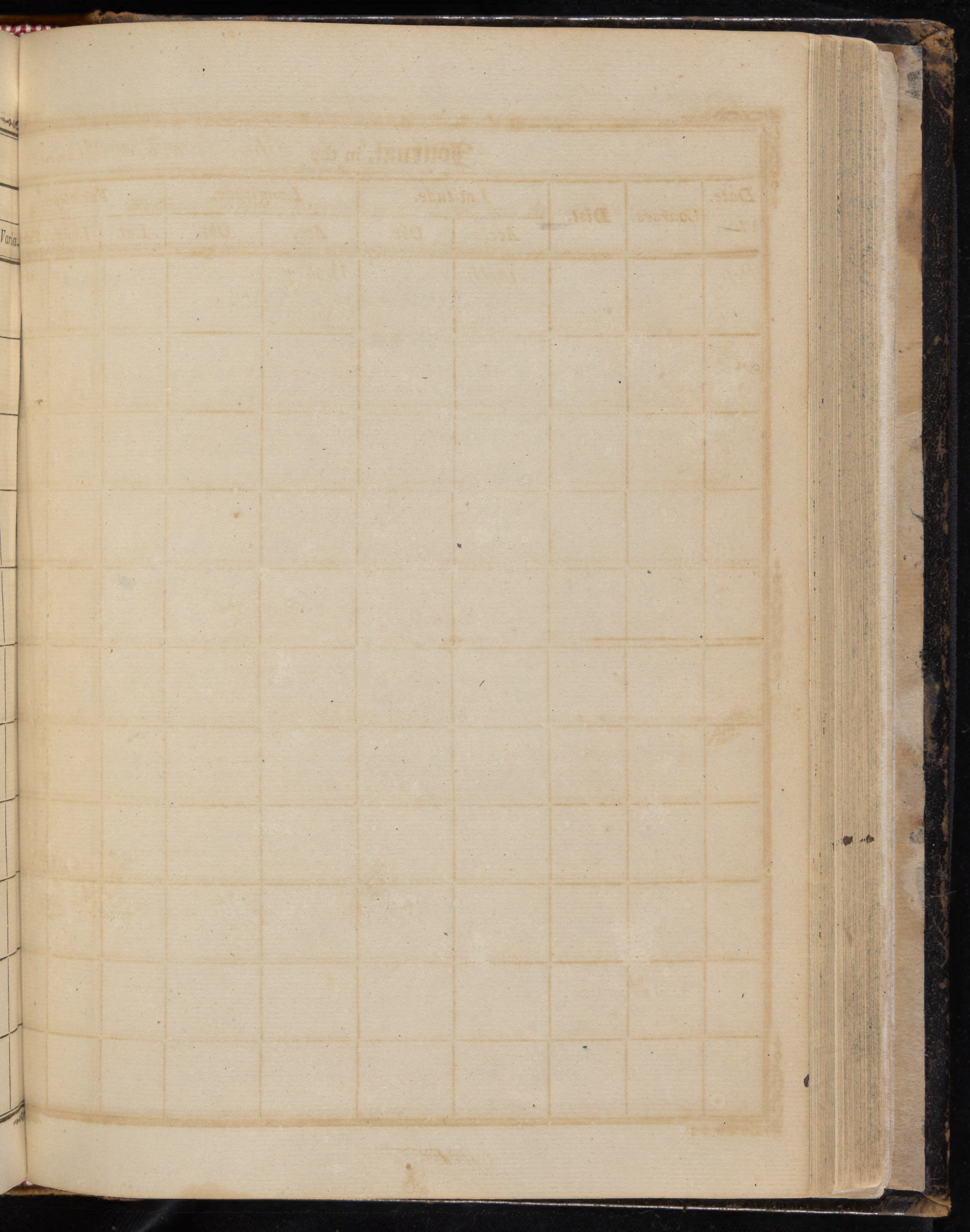
Date. 1802	Courses.	Dist.	Latitude.		Longitude.		Variation.		
			Acc.	Obs.	Acc.	Obs.	Lat.	Long.	Varia
Oct ^r 4 th	N 13 ^o 14 ^o W	61	8.50	North	West	36.8			
5 th	N 35 ^o 14 ^o W	133	10.38		37.26				
6 th	N 47 ^o W	155	12.23		39.23				
7 th	N 65 ^o W	64	12.51	12.49	40.25				
8 th	N 37 ^o W	49	13.28	13.29	40.55				
9 th	N 54 ^o W	85	14.18	14.18	42.5	41.52			
10 th	N 51 ^o W	113	15.29	15.29	43.23				
11 th	N 50 ^o W	212	17.42	17.40	46.16				
12 th	N 40 ^o W	165	19.48	19.49	48.8				
13 th	N 34 ^o W	185	22.21	22.22	49.58				
14 th	N 48 ^o W	158	24.6	24.8	52.6		22.48	50.26	02 ^h 3.49 W

Tibbets Master, from Calcutta towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
N. W. - " - from N. W. to N. E.	This day, light Breeze, with small Squalls; at times inclining to a Calm, considerable Rain, caught 3 $\frac{1}{2}$ lbs. - -
West - W. S. - N. W. - W. S. -	This day, Squally, & much Rain, a long swell from the N. E. -
N. S. W. - S. W. -	This day, moderate Wind, Cloudy, with small Squalls, & Rain
S. W. - North - E. S. E. - N. W. - N. E.	This day moderate Wind & very variable, times looking very Squally Thunder & vivid lightning in the East - - -
N. N. W. - N. W. - N. W. - West -	This day moderate Wind & looking Squally throughout the day & Night Thunder & vivid lightning in the East -
N. W. - N. W. - N. W. - North - N. E. to S. E.	This day, Moderate Wind & looking Squally. times small showers of Rain & 9 th 30. a.m. took a Lunar Obs ⁿ . & 11 a.m. saw a Ship Bear ^g . N. E. steering to the S. W.
N. E. to South - E. N. E. - S. E. -	This day Commences with very light airs inclining to Calm, throughout the Night looking Squally, with Rain & Wind Variable - - Noon the Wind shifted to E. N. E. with a fine Breeze
E. N. E. - " - N. E. to East -	This day began with Pleasant Weather and a fine Breeze, & so continued until 5. a.m. then coming Squally, with Rain, & the Wind Variable, so Ends - - -
East - E. S. E. - N. E. & E.	This day begins with moderate Wind, small Squalls & Rain - - - Ends, Pleasant Weather -
E. N. E.	This day, Moderate Wind, attended with small Squalls & showers of Rain - saw a Ship in the N. E. quarter, steering to Y. Westward
E. N. E. - S. E. - E. S. E. - S. E. & S.	Commences with Moderate Wind & pleasant Weather Midnight. Squally with Rain Ends Moderate & somewhat Cloudy - see Gulph weed

Master, from Calcutta towards Salem

Winds.	Weather, Currents, Bearings of the Land, and Remarkable Occurrences.
E. S. E.	This day Moderate Wind and pleasant Weather - 7. P. m passed a Ship steering to $\frac{1}{2}$ Northw ^d & Eastw ^d -
E. N. E. N. E. - - - -	This day, light airs and remarkable pleasant, & serene. see considerable Gulph Weed -
N. N. E. E. N. E.	This day, Moderate Wind and pleasant Weather all hands at Painting -
South- SWW N. S. W W. S. W.	This day, Moderate Wind and pleasant Weather, the Wind Variable. 6. a. m saw a Brig ^t steering to N. S. E. 9. a. m saw a Ship steering to $\frac{1}{2}$ N. E. -
from West to North	This day Variable Winds, & small Squalls with Rain Spoke, Schooner Tanny, Ward, from Guilford, Conn ^t for Barbadoes out 11 days all well, & the Brig ^t Huron, Smith, from N. Haven 12 days all well.
N. E. - N. N. E. Calm -	This day Commences with light airs, & large swell from $\frac{1}{2}$ Westw ^d from Midnight to 10. a. m. Calm Ends moderate Breeze, from West -
W. S. W. N. N. W. North	This day Commences with moderate Wind & Cloudy - from 9 P. m to 6 a. m. lay with M. S. Sail to the Mast Ends moderate, with a disagreeable Sea -
N. E. N. N. E. N. E. by N.	This day, moderate Wind and pleasant Weather, flying Clouds - got the anchors on the Bows
N. E. E. by S. S. E.	This day, Moderate & Variable Winds, Cloudy, and small Squalls with fine Rain, a large & long swell from $\frac{1}{2}$ N. W. -
E. N. E. E. S. E. N. E. E. N. E.	This day Fresh Breezes thick & Rainy weather, throughout
E. N. E. East - - - -	This day Commences with fresh Breezes, & Squally, with Rain, Midnight more Moderate, Ends Moderate & Pleasant.



8
Remarks — The difference in the Longitude
by Lat^d & Obs^d was occasioned by an unpardonable
negligence in omitting a knot on the Log Line,
which was not discovered till we were nearly up
with the Equinoctial Line; on our passage out —

In order to have the exact Latitudes
& Longitudes of the Obs^d Variations, it will be necessary
to calculate them by the Intermediate Lunar Obs^d ;
which I ^{have} always found nearly correct in making
the Land —

It may be worthy of notice to
observe the Strong Easterly Current which we
experienced from Cape Guardafui till nearly
up with Madagascar — after which to the Cape
Good Hope we experienced as strong a N & Westly
one —

No. 19

Journal

From *Salem Massachusetts* to *Mocha*
 in the *Ship Bonetta (of Salem) Benj^d Russell* Master :
 kept by *Thomas B. Orwood* — for the use of the
EAST INDIA MARINE SOCIETY.

At a Meeting of the **EAST INDIA MARINE SOCIETY**, at their Hall, on Wednesday evening, November 4, 1801, it was unanimously voted, That, in order to promote one great object of their institution, which was the acquiring of nautical knowledge, a Committee should be chosen to procure *BLANK JOURNALS* for the use of the Society; and that each Member bound to sea should be furnished with one of them, to be returned at the end of his voyage, with a regular diary of the winds, weather, and remarkable occurrences, during his voyage, arranged in such manner as the Committee should direct.

Conformable to the above vote, a Committee was chosen; who, having procured *JOURNALS* of the present form, request the Members to fill up the blanks according to the following

DIRECTIONS.

THE blank at the top is to be filled up with the names of the Master, and of the person keeping the Journal, the name of the ship, and the places nearest to the ship on the days given in that page. As for example: after passing the Cape de Verds, say, from the Cape de Verds towards the Cape of Good Hope.

In the 1st column of the Journal must be marked the day of the month; in the 2d, the course made good on that day; in the 3d, the distance sailed; in the 4th, the latitude at noon by account; in the 5th, the latitude by observation; in the 6th, the longitude by account; in the 7th, the longitude by observation reduced to noon by means of the log, or a time-keeper.

When the variation is observed, it is to be marked in the 10th column, the latitude and longitude in at the time of taking the observation being calculated from the observed latitude and longitude at noon by means of the log, and marked in the 8th and 9th columns. When the variation is observed both in the evening and morning of the same sea-day, the evening observation must be marked first; and it may be also noted whether the observation was by an azimuth or amplitude, by marking the former *az.* and the latter *am.*

The winds are to be marked in the 11th column, two or three times each day, placing them regularly beneath each other.

In the right hand column must be noted, the general state of the weather, winds, currents, bearings of capes, islands, &c. with their estimated distances, and any other remarks that may be useful to navigators.

When an opportunity offers to take any observations for determining the latitude or longitude of any remarkable place or point of land, it should be carefully attended to; and, for the satisfaction of those who may examine the Journals, it will be proper to give a detail of the observations. Thus, if the observation was taken for determining the latitude by the meridian altitude of the Sun, it would be proper to note the altitude of the Sun's lower limb, taken from the quadrant, his declination, and the bearing and distance of the place at the time of observation. Should the place not be in sight at the time of taking the meridian observation, it would be proper to note the course and distance made good by the ship, between the times of taking the meridian observation and observing the bearing of the land. A particular attention to observations of this kind will probably be the means of procuring a valuable collection of useful information. If the latitude or longitude observed should differ from any late books or charts, it would be proper to note it. In case any general remarks on the wind, weather, &c. experienced in the passages, should occur to the Journalist, he is requested to arrange them in the pages allotted for that purpose at the end of the Journal. A blank page is also assigned for an account of the coin, weights and measures of the several places touched at in the voyage; and it is hoped that care will be taken in acquiring information on these subjects. Any remarks on the commerce of the different places touched at in the voyage, with the imports, exports, and manner of transacting business, will be of public utility. Whatever is singular in the manners, customs, dress, ornaments, &c. of any people, is deserving of notice.

There should be collected, for the Museum, specimens of various kinds of vegetable substances, earths, minerals, ores, metals, volcanic substances, &c. There should also be preserved such parts of birds, insects, fish, &c. as serve most easily to distinguish them, and if no part can be preserved, a description of any that are remarkable may be given. Inquiry should be made for any remarkable books in use, among any of the eastern nations, with their subjects, dates and titles. Articles of the dress and ornaments of any nation, with the images and objects of religious devotion, should be procured.

